



Electromagnetic Surface Waves: A Modern Perspective (Elsevier Insights)

By John Polo, Tom Mackay, Akhlesh Lakhtakia

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For decades, the surface-plasmon-polariton wave guided by the interface of simple isotropic materials dominated the scene. However, in recent times research on electromagnetic surface waves guided by planar interfaces has expanded into new and exciting areas. In the 1990's research focused on advancing knowledge of the newly discovered Dyakonov wave. More recently, much of the surface wave research is motivated by the proliferation of nanotechnology and the growing number of materials available with novel properties. This book leads the reader from the relatively simple surface-plasmon-polariton wave with isotropic materials to the latest research on various types of electromagnetic surface waves guided by the interfaces of complex materials enabled by recent developments in nanotechnology. This includes: Dyakonov waves guided by interfaces formed with columnar thin films, Dyakonov-Tamm waves guided by interfaces formed with sculptured thin films, and multiple modes of surface-plasmon-polariton waves guided by the interface of a metal and a periodically varying dielectric material.

- Gathers research from the past 5 years in a single comprehensive view of electromagnetic surface waves.
- Written by the foremost experts and researchers in the field.
- Layered presentation explains topics with an introductory overview level up to a highly technical level.

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Review

"Polo, Mackay, and Lakhtakia present this niche text on electromagnetic surface waves...The text relies heavily on advanced mathematics, and several mathematical appendices are included."--Reference & Research Book News, October 2013

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